



Operation Mode: TX / IEEE 802.11b (Antenna 2)/ CH Low Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3760.0000	44.42	-2.59	41.83	74.00	-32.17	V	peak
4915.0000	42.16	0.93	43.09	74.00	-30.91	V	peak
5155.0000	44.46	1.50	45.96	74.00	-28.04	V	peak
5965.0000	43.77	3.04	46.81	74.00	-27.19	V	peak
6955.0000	43.83	6.12	49.95	74.00	-24.05	V	peak
7315.0000	49.92	7.49	57.41	74.00	-16.59	V	peak
7315.0000	43.77	7.49	51.26	54.00	-2.74	V	AVG
3760.0000	45.63	-2.59	43.04	74.00	-30.96	H	Peak
4330.0000	45.54	-1.09	44.45	74.00	-29.55	H	Peak
5350.0000	45.43	1.53	46.96	74.00	-27.04	H	Peak
5815.0000	44.27	2.80	47.07	74.00	-26.93	H	Peak
6280.0000	44.89	3.92	48.81	74.00	-25.19	H	Peak
6685.0000	44.35	5.11	49.46	74.00	-24.54	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3430.0000	45.47	-3.85	41.62	74.00	-32.38	V	peak
4450.0000	44.66	-0.73	43.93	74.00	-30.07	V	peak
4930.0000	44.26	1.00	45.26	74.00	-28.74	V	peak
6220.0000	42.65	3.74	46.39	74.00	-27.61	V	peak
6805.0000	44.09	5.52	49.61	74.00	-24.39	V	peak
7390.0000	50.69	7.57	58.26	74.00	-15.74	V	peak
7390.0000	42.96	7.57	50.53	54.00	-3.47	V	AVG
2575.0000	49.23	-5.93	43.30	74.00	-30.70	H	Peak
3265.0000	47.21	-4.06	43.15	74.00	-30.85	H	Peak
3865.0000	46.30	-2.50	43.80	74.00	-30.20	H	Peak
4270.0000	45.40	-1.31	44.09	74.00	-29.91	H	Peak
5155.0000	44.76	1.50	46.26	74.00	-27.74	H	Peak
5995.0000	46.18	3.08	49.26	74.00	-24.74	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



**Operation Mode:** TX / IEEE 802.11g (Antenna 1)/ CH Low **Test Date:** March 21, 2013  
**Temperature:** 24°C **Tested by:** Leevin Li  
**Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBUV)	Correction Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3640.0000	46.16	-2.91	43.25	74.00	-30.75	V	Peak
4870.0000	43.90	0.73	44.63	74.00	-29.37	V	Peak
5320.0000	44.26	1.53	45.79	74.00	-28.21	V	Peak
5785.0000	44.66	2.72	47.38	74.00	-26.62	V	Peak
6235.0000	44.83	3.79	48.62	74.00	-25.38	V	Peak
7240.0000	57.41	7.41	64.82	74.00	-9.18	V	Peak
7240.0000	42.18	7.41	49.59	54.00	-4.41	V	AVG
3160.0000	46.70	-4.12	42.58	74.00	-31.42	H	Peak
3745.0000	45.91	-2.63	43.28	74.00	-30.72	H	Peak
4240.0000	45.31	-1.43	43.88	74.00	-30.12	H	Peak
5005.0000	45.23	1.33	46.56	74.00	-27.44	H	Peak
5575.0000	45.63	1.88	47.51	74.00	-26.49	H	Peak
6265.0000	45.08	3.88	48.96	74.00	-25.04	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBUV/m) – Average limit (dBUV/m).



Operation Mode: TX / IEEE 802.11g(Antenna 1) / CH Mid Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3835.0000	46.12	-2.50	43.62	74.00	-30.38	V	Peak
4450.0000	45.68	-0.73	44.95	74.00	-29.05	V	Peak
5110.0000	44.76	1.45	46.21	74.00	-27.79	V	Peak
5770.0000	45.66	2.65	48.31	74.00	-25.69	V	Peak
6295.0000	44.95	3.97	48.92	74.00	-25.08	V	Peak
7300.0000	52.20	7.47	59.67	74.00	-14.33	V	Peak
7300.0000	36.81	7.47	44.28	54.00	-9.72	V	AVG
3580.0000	46.20	-3.11	43.09	74.00	-30.91	H	Peak
4495.0000	45.17	-0.65	44.52	74.00	-29.48	H	Peak
4990.0000	44.74	1.27	46.01	74.00	-27.99	H	Peak
5605.0000	45.49	1.95	47.44	74.00	-26.56	H	Peak
5830.0000	45.60	2.83	48.43	74.00	-25.57	H	Peak
7300.0000	45.15	7.47	52.62	74.00	-21.38	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11g(Antenna 1) / CH High Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1405.0000	48.35	-7.85	40.50	74.00	-33.50	V	Peak
3235.0000	46.55	-4.07	42.48	74.00	-31.52	V	Peak
4135.0000	46.08	-1.89	44.19	74.00	-29.81	V	Peak
4975.0000	44.51	1.21	45.72	74.00	-28.28	V	Peak
5755.0000	45.77	2.59	48.36	74.00	-25.64	V	Peak
7390.0000	52.61	7.57	60.18	74.00	-13.82	V	Peak
7390.0000	38.71	7.57	46.28	54.00	-7.72	V	AVG
3355.0000	46.49	-4.02	42.47	74.00	-31.53	H	Peak
3865.0000	46.52	-2.50	44.02	74.00	-29.98	H	Peak
4525.0000	45.08	-0.59	44.49	74.00	-29.51	H	Peak
4915.0000	45.47	0.93	46.40	74.00	-27.60	H	Peak
5380.0000	44.75	1.52	46.27	74.00	-27.73	H	Peak
6205.0000	44.31	3.70	48.01	74.00	-25.99	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
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**Operation Mode:** TX / IEEE 802.11g(Antenna 2) / CH Low    **Test Date:** March 21, 2013  
**Temperature:** 24°C    **Tested by:** Leevin Li  
**Humidity:** 52% RH    **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3220.0000	50.92	-4.08	46.84	74.00	-27.16	V	Peak
4825.0000	45.30	0.52	45.82	74.00	-28.18	V	Peak
5245.0000	44.90	1.54	46.44	74.00	-27.56	V	Peak
5890.0000	44.03	2.92	46.95	74.00	-27.05	V	Peak
6685.0000	43.84	5.11	48.95	74.00	-25.05	V	Peak
7240.0000	50.07	7.41	57.48	74.00	-16.52	V	Peak
7240.0000	40.30	7.41	47.71	54.00	-6.29	V	AVG
1465.0000	48.77	-8.11	40.66	74.00	-33.34	H	Peak
3760.0000	45.48	-2.59	42.89	74.00	-31.11	H	Peak
4960.0000	45.25	1.14	46.39	74.00	-27.61	H	Peak
5710.0000	44.68	2.40	47.08	74.00	-26.92	H	Peak
6220.0000	44.45	3.74	48.19	74.00	-25.81	H	Peak
6625.0000	44.40	4.91	49.31	74.00	-24.69	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
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6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11g(Antenna 2) / CH Mid Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3250.0000	49.80	-4.07	45.73	74.00	-28.27	V	Peak
4480.0000	44.56	-0.68	43.88	74.00	-30.12	V	Peak
5290.0000	45.30	1.54	46.84	74.00	-27.16	V	Peak
5905.0000	44.34	2.94	47.28	74.00	-26.72	V	Peak
6325.0000	44.96	4.05	49.01	74.00	-24.99	V	Peak
7315.0000	54.81	7.49	62.30	74.00	-11.70	V	Peak
7315.0000	40.12	7.49	47.61	54.00	-6.39	V	AVG
3250.0000	47.91	-4.07	43.84	74.00	-30.16	H	Peak
4180.0000	45.35	-1.67	43.68	74.00	-30.32	H	Peak
4915.0000	45.57	0.93	46.50	74.00	-27.50	H	Peak
5560.0000	44.44	1.85	46.29	74.00	-27.71	H	Peak
6205.0000	44.08	3.70	47.78	74.00	-26.22	H	Peak
6475.0000	44.87	4.47	49.34	74.00	-24.66	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



**Operation Mode:** TX / IEEE 802.11g(Antenna 2) / CH High **Test Date:** March 21, 2013  
**Temperature:** 24°C **Tested by:** Leevin Li  
**Humidity:** 52 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3340.0000	47.58	-4.03	43.55	74.00	-30.45	V	Peak
4420.0000	45.38	-0.78	44.60	74.00	-29.40	V	Peak
5050.0000	45.04	1.38	46.42	74.00	-27.58	V	Peak
5500.0000	44.86	1.73	46.59	74.00	-27.41	V	Peak
6100.0000	45.74	3.39	49.13	74.00	-24.87	V	Peak
6820.0000	44.43	5.57	50.00	74.00	-24.00	V	Peak
3280.0000	48.39	-4.05	44.34	74.00	-29.66	H	Peak
4195.0000	46.30	-1.60	44.70	74.00	-29.30	H	Peak
4930.0000	46.12	1.00	47.12	74.00	-26.88	H	Peak
5725.0000	45.49	2.46	47.95	74.00	-26.05	H	Peak
6025.0000	45.06	3.16	48.22	74.00	-25.78	H	Peak
7015.0000	44.66	6.43	51.09	74.00	-22.91	H	Peak

**REMARKS:**

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*





Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 1) / CH Low
Temperature: 24°C
Humidity: 52% RH

Test Date: March 21, 2013
Tested by: Leevin Li
Polarity: Ver. / Hor.

Table with 8 columns: Frequency (MHz), Reading (dBuV), Correction Factor (dB/m), Result (dBuV/m), Limit (dBuV/m), Margin (dB), Antenna Pole (V/H), Remark. It contains two sets of data rows for various frequencies.

REMARKS:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 1) / CH Mid

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2560.0000	49.60	-5.98	43.62	74.00	-30.38	V	Peak
3685.0000	45.51	-2.79	42.72	74.00	-31.28	V	Peak
4270.0000	46.51	-1.31	45.20	74.00	-28.80	V	Peak
5095.0000	45.95	1.43	47.38	74.00	-26.62	V	Peak
6130.0000	44.53	3.48	48.01	74.00	-25.99	V	Peak
7315.0000	52.76	7.49	60.25	74.00	-13.75	V	Peak
7315.0000	37.90	7.49	45.39	54.00	-8.61	V	AVG
3040.0000	47.34	-4.21	43.13	74.00	-30.87	H	Peak
3985.0000	45.92	-2.53	43.39	74.00	-30.61	H	Peak
5200.0000	45.12	1.55	46.67	74.00	-27.33	H	Peak
5800.0000	44.53	2.78	47.31	74.00	-26.69	H	Peak
6895.0000	44.44	5.82	50.26	74.00	-23.74	H	Peak
7315.0000	49.20	7.49	56.69	74.00	-17.31	H	Peak
7315.0000	36.09	7.49	43.58	54.00	-10.42	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 1)/ CH High

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2830.0000	47.51	-4.92	42.59	74.00	-31.41	V	Peak
3475.0000	46.33	-3.63	42.70	74.00	-31.30	V	Peak
4330.0000	46.12	-1.09	45.03	74.00	-28.97	V	Peak
5320.0000	45.42	1.53	46.95	74.00	-27.05	V	Peak
6310.0000	44.73	4.01	48.74	74.00	-25.26	V	Peak
7390.0000	53.68	7.57	61.25	74.00	-12.75	V	Peak
7390.0000	39.27	7.57	46.84	54.00	-7.16	V	AVG
2560.0000	48.26	-5.98	42.28	74.00	-31.72	H	Peak
3865.0000	46.07	-2.50	43.57	74.00	-30.43	H	Peak
4825.0000	45.56	0.52	46.08	74.00	-27.92	H	Peak
5155.0000	46.06	1.50	47.56	74.00	-26.44	H	Peak
6055.0000	44.70	3.25	47.95	74.00	-26.05	H	Peak
6745.0000	44.39	5.31	49.70	74.00	-24.30	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
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Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 2)/ CH Low

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3220.0000	49.92	-4.08	45.84	74.00	-28.16	V	Peak
3865.0000	46.60	-2.50	44.10	74.00	-29.90	V	Peak
4405.0000	45.59	-0.81	44.78	74.00	-29.22	V	Peak
5245.0000	44.80	1.54	46.34	74.00	-27.66	V	Peak
6250.0000	43.87	3.83	47.70	74.00	-26.30	V	Peak
7240.0000	54.94	7.41	62.35	74.00	-11.65	V	Peak
7240.0000	39.87	7.41	47.28	54.00	-6.72	V	AVG
3210.0000	48.33	-4.09	44.24	74.00	-29.76	H	Peak
4400.0000	44.16	-0.82	43.34	74.00	-30.66	H	Peak
5193.3333	44.38	1.54	45.92	74.00	-28.08	H	Peak
5930.0000	43.80	2.98	46.78	74.00	-27.22	H	Peak
6383.3333	44.92	4.21	49.13	74.00	-24.87	H	Peak
7233.3333	49.44	7.40	56.84	74.00	-17.16	H	Peak
7233.3333	35.86	7.40	43.26	54.00	-10.74	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT20 MHz  
(Antenna 2)/ CH Mid

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3190.0000	46.79	-4.10	42.69	74.00	-31.31	V	Peak
4255.0000	45.52	-1.37	44.15	74.00	-29.85	V	Peak
4990.0000	44.99	1.27	46.26	74.00	-27.74	V	Peak
5500.0000	44.93	1.73	46.66	74.00	-27.34	V	Peak
6175.0000	44.98	3.61	48.59	74.00	-25.41	V	Peak
6400.0000	45.02	4.26	49.28	74.00	-24.72	V	Peak
3250.0000	49.09	-4.07	45.02	74.00	-28.98	H	Peak
4420.0000	44.35	-0.78	43.57	74.00	-30.43	H	Peak
4960.0000	44.93	1.14	46.07	74.00	-27.93	H	Peak
5740.0000	44.38	2.52	46.90	74.00	-27.10	H	Peak
6280.0000	44.50	3.92	48.42	74.00	-25.58	H	Peak
6760.0000	44.76	5.36	50.12	74.00	-23.88	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 2)/ CH High

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3280.0000	50.82	-4.05	46.77	74.00	-27.23	V	Peak
4300.0000	45.55	-1.20	44.35	74.00	-29.65	V	Peak
5065.0000	45.03	1.39	46.42	74.00	-27.58	V	Peak
5605.0000	44.71	1.95	46.66	74.00	-27.34	V	Peak
6280.0000	44.60	3.92	48.52	74.00	-25.48	V	Peak
7390.0000	52.61	7.57	60.18	74.00	-13.82	V	Peak
7390.0000	38.58	7.57	46.15	54.00	-7.85	V	AVG
3280.0000	47.67	-4.05	43.62	74.00	-30.38	H	Peak
4390.0000	46.02	-0.86	45.16	74.00	-28.84	H	Peak
5095.0000	44.83	1.43	46.26	74.00	-27.74	H	Peak
6025.0000	44.50	3.16	47.66	74.00	-26.34	H	Peak
6415.0000	45.44	4.30	49.74	74.00	-24.26	H	Peak
7390.0000	45.73	7.57	53.30	74.00	-20.70	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT40 MHz  
(Antenna 1) / CH Low

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3235.0000	53.33	-4.07	49.26	74.00	-24.74	V	Peak
4150.0000	45.20	-1.82	43.38	74.00	-30.62	V	Peak
4900.0000	44.78	0.86	45.64	74.00	-28.36	V	Peak
5050.0000	44.92	1.38	46.30	74.00	-27.70	V	Peak
6325.0000	45.79	4.05	49.84	74.00	-24.16	V	Peak
7270.0000	51.05	7.44	58.49	74.00	-15.51	V	Peak
7270.0000	36.07	7.44	43.51	54.00	-10.49	V	AVG
3235.0000	51.78	-4.07	47.71	74.00	-26.29	H	Peak
4000.0000	45.62	-2.53	43.09	74.00	-30.91	H	Peak
4585.0000	44.69	-0.49	44.20	74.00	-29.80	H	Peak
5200.0000	44.26	1.55	45.81	74.00	-28.19	H	Peak
5755.0000	45.72	2.59	48.31	74.00	-25.69	H	Peak
6505.0000	45.20	4.55	49.75	74.00	-24.25	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT40 MHz  
(Antenna 1)/ CH Mid

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3250.0000	52.03	-4.07	47.96	74.00	-26.04	V	Peak
4405.0000	44.84	-0.81	44.03	74.00	-29.97	V	Peak
5200.0000	45.78	1.55	47.33	74.00	-26.67	V	Peak
6340.0000	44.82	4.09	48.91	74.00	-25.09	V	Peak
6910.0000	45.94	5.89	51.83	74.00	-22.17	V	Peak
7315.0000	49.92	7.49	57.41	74.00	-16.59	V	Peak
7315.0000	35.72	7.49	43.21	54.00	-10.79	V	AVG
3250.0000	49.51	-4.07	45.44	74.00	-28.56	H	Peak
3940.0000	45.92	-2.52	43.40	74.00	-30.60	H	Peak
4855.0000	45.69	0.66	46.35	74.00	-27.65	H	Peak
5110.0000	44.71	1.45	46.16	74.00	-27.84	H	Peak
5755.0000	45.54	2.59	48.13	74.00	-25.87	H	Peak
6490.0000	43.92	4.51	48.43	74.00	-25.57	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).





Operation Mode: TX / IEEE 802.11n HT40 MHz (Antenna 1) / CH High
Temperature: 24°C
Humidity: 52% RH

Test Date: March 21, 2013
Tested by: Leevin Li
Polarity: Ver. / Hor.

Table with 8 columns: Frequency (MHz), Reading (dBuV), Correction Factor (dB/m), Result (dBuV/m), Limit (dBuV/m), Margin (dB), Antenna Pole (V/H), Remark. It contains two sets of data rows for frequencies ranging from 3266.6667 to 7148.3333 MHz.

REMARKS:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT40 MHz  
(Antenna 2)/ CH Low

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3266.6667	46.57	-4.06	42.51	74.00	-31.49	V	Peak
3833.3333	45.80	-2.50	43.30	74.00	-30.70	V	Peak
4825.0000	45.64	0.52	46.16	74.00	-27.84	V	Peak
5788.3333	44.47	2.73	47.20	74.00	-26.80	V	Peak
6836.6667	44.09	5.62	49.71	74.00	-24.29	V	Peak
7290.0000	53.78	7.46	61.24	74.00	-12.76	V	Peak
7290.0000	39.02	7.46	46.48	54.00	-7.52	V	AVG
3266.6667	46.54	-4.06	42.48	74.00	-31.52	H	Peak
4485.0000	45.37	-0.67	44.70	74.00	-29.30	H	Peak
4938.3333	44.97	1.04	46.01	74.00	-27.99	H	Peak
5845.0000	43.57	2.85	46.42	74.00	-27.58	H	Peak
6950.0000	44.32	6.09	50.41	74.00	-23.59	H	Peak
7290.0000	49.38	7.46	56.84	74.00	-17.16	H	Peak
7290.0000	33.80	7.46	41.26	54.00	-12.74	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / IEEE 802.11n HT40 MHz  
(Antenna 2)/ CH Mid

Test Date: March 21, 2013

Temperature: 24°C

Tested by: Leevin Li

Humidity: 52% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3861.6667	45.82	-2.50	43.32	74.00	-30.68	V	Peak
4966.6667	44.34	1.17	45.51	74.00	-28.49	V	Peak
5193.3333	45.69	1.54	47.23	74.00	-26.77	V	Peak
6525.0000	44.27	4.61	48.88	74.00	-25.12	V	Peak
6780.0000	44.16	5.43	49.59	74.00	-24.41	V	Peak
7318.3333	49.77	7.49	57.26	74.00	-16.74	V	Peak
7318.3333	35.69	7.49	43.18	54.00	-10.82	V	AVG
3238.3333	46.74	-4.07	42.67	74.00	-31.33	H	Peak
3833.3333	46.05	-2.50	43.55	74.00	-30.45	H	Peak
4711.6667	44.47	0.03	44.50	74.00	-29.50	H	Peak
5731.6667	44.25	2.49	46.74	74.00	-27.26	H	Peak
6468.3333	44.77	4.45	49.22	74.00	-24.78	H	Peak
7176.6667	44.52	7.25	51.77	74.00	-22.23	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



**Operation Mode:** TX / IEEE 802.11n HT40 MHz (Antenna 2)/ CH High **Test Date:** March 21, 2013  
**Temperature:** 24°C **Tested by:** Leevin Li  
**Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3323.3333	46.45	-4.03	42.42	74.00	-31.58	V	Peak
3918.3333	45.79	-2.51	43.28	74.00	-30.72	V	Peak
4910.0000	45.60	0.91	46.51	74.00	-27.49	V	Peak
6468.3333	44.15	4.45	48.60	74.00	-25.40	V	Peak
6921.6667	45.07	5.95	51.02	74.00	-22.98	V	Peak
7346.6667	45.40	7.52	52.92	74.00	-21.08	V	Peak
3266.6667	46.98	-4.06	42.92	74.00	-31.08	H	Peak
4173.3333	45.51	-1.71	43.80	74.00	-30.20	H	Peak
4881.6667	45.66	0.78	46.44	74.00	-27.56	H	Peak
5816.6667	44.51	2.81	47.32	74.00	-26.68	H	Peak
6496.6667	43.64	4.53	48.17	74.00	-25.83	H	Peak
7063.3333	43.36	6.67	50.03	74.00	-23.97	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



### 7.3. 6dB BANDWIDTH MEASUREMENT

#### 7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

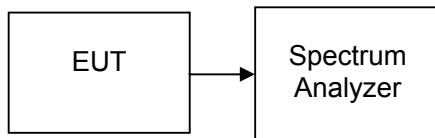
#### 7.3.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	03/09/2013	03/08/2014

#### 7.3.3. TEST PROCEDURES (please refer to measurement standard)

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 1-5 % of the emission bandwidth (EBW), VBW =  $\geq 3 \times$  RBW, Sweep = auto.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

#### 7.3.4. TEST SETUP





7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	8086	>500	PASS
Mid	2437	8131		PASS
High	2462	8075		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15141	>500	PASS
Mid	2437	15131		PASS
High	2462	15162		PASS

Test mode: IEEE 802.11g (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15096	>500	PASS
Mid	2437	15141		PASS
High	2462	15145		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15136	>500	PASS
Mid	2437	15136		PASS
High	2462	15136		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15144	>500	PASS
Mid	2437	15130		PASS
High	2462	15126		PASS



**Test mode: IEEE 802.11n HT40 MHz (Antenna 1)**

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	35478	>500	PASS
Mid	2437	35754		PASS
High	2452	35734		PASS

**Test mode: IEEE 802.11n HT40 MHz (Antenna 2)**

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	35189	>500	PASS
Mid	2437	35718		PASS
High	2452	35712		PASS



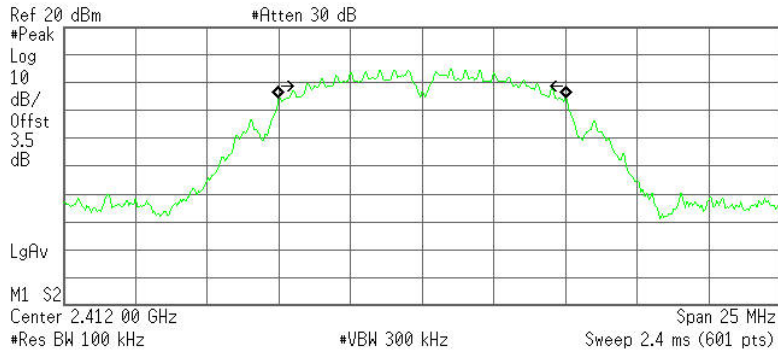
Test Plot

IEEE 802.11b (Antenna 2)mode

6dB Bandwidth (CH Low)

Agilent

R T



Occupied Bandwidth  
10.0149 MHz

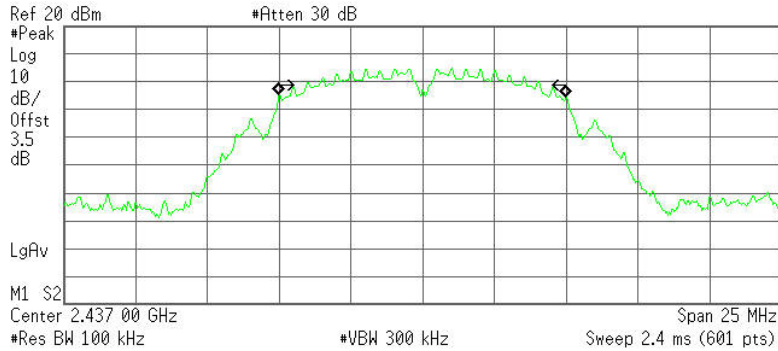
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error 20,572 kHz  
x dB Bandwidth 8,086 MHz

6dB Bandwidth (CH Mid)

Agilent

R T



Occupied Bandwidth  
10.0129 MHz

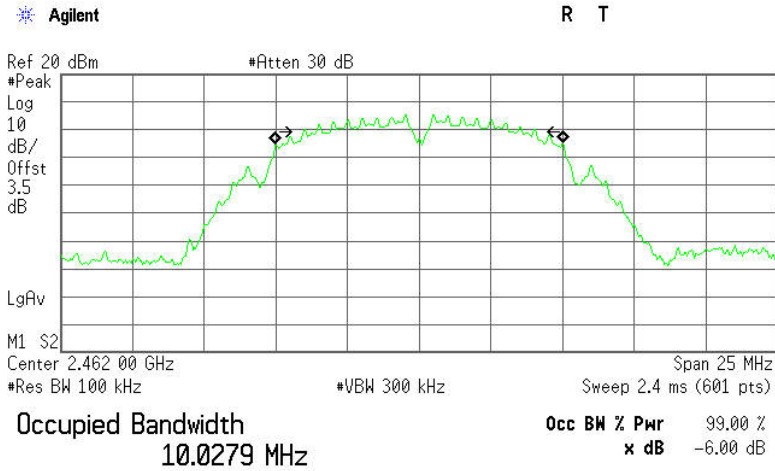
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error 12,495 kHz  
x dB Bandwidth 8,131 MHz





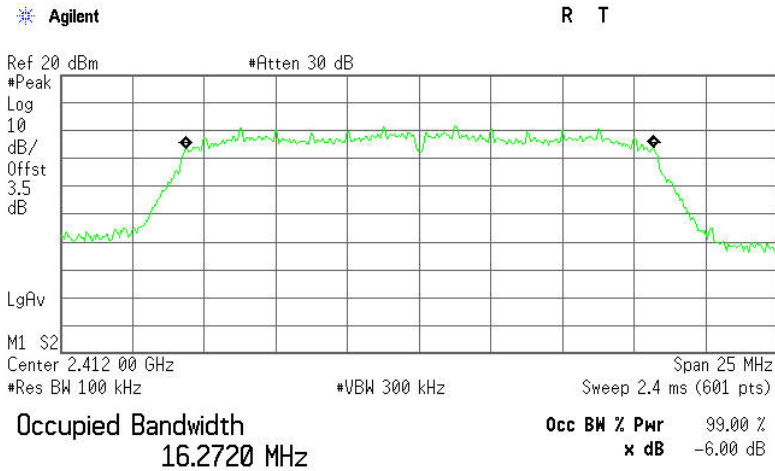
### 6dB Bandwidth (CH High)



Transmit Freq Error 21.396 kHz  
x dB Bandwidth 8.075 MHz

### IEEE 802.11g (Antenna 1) mode

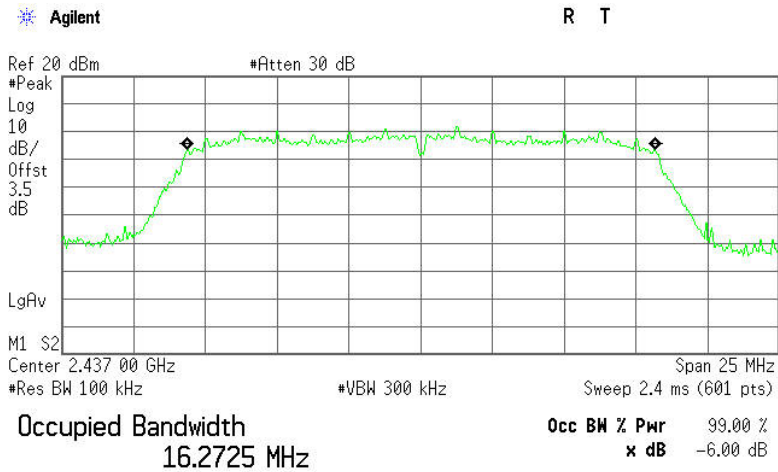
### 6dB Bandwidth (CH Low)



Transmit Freq Error 22.067 kHz  
x dB Bandwidth 15.141 MHz

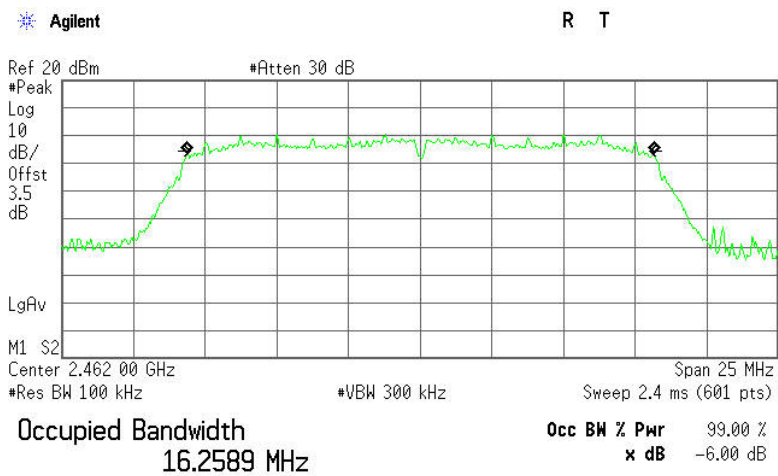


### 6dB Bandwidth (CH Mid)



Transmit Freq Error 20.755 kHz  
x dB Bandwidth 15.131 MHz

### 6dB Bandwidth (CH High)

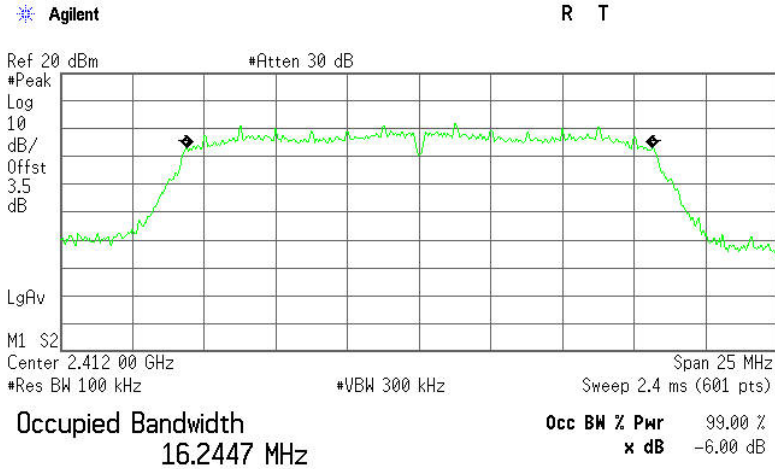


Transmit Freq Error 20.225 kHz  
x dB Bandwidth 15.162 MHz



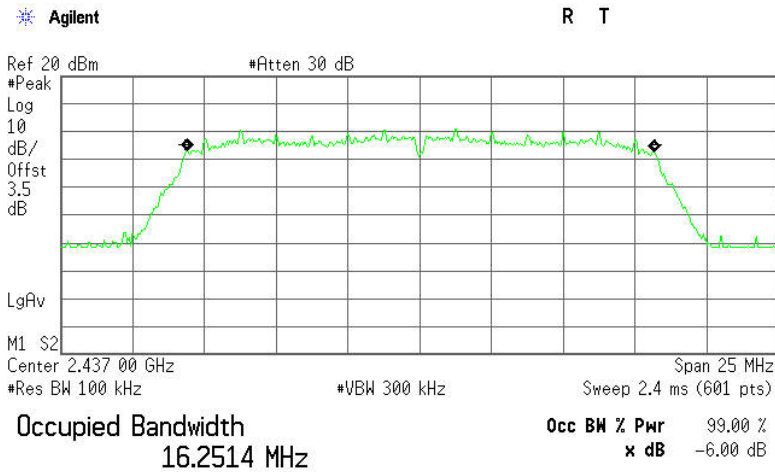
IEEE 802.11g (Antenna 2) mode

6dB Bandwidth (CH Low)



Transmit Freq Error 22.256 kHz  
 x dB Bandwidth 15.096 MHz

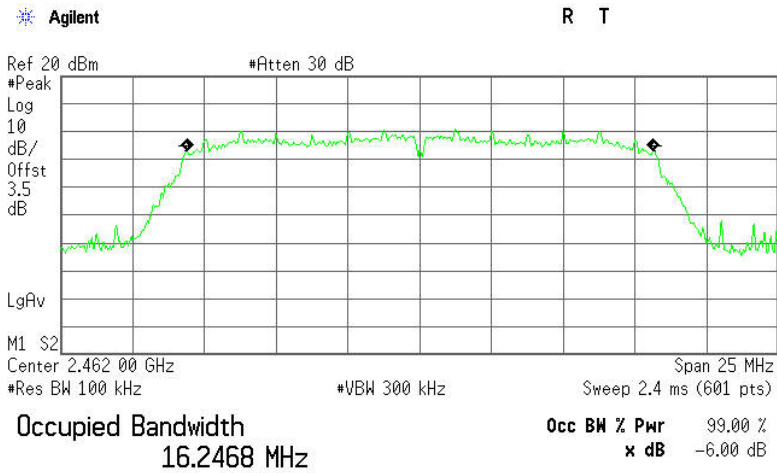
6dB Bandwidth (CH Mid)



Transmit Freq Error 21.912 kHz  
 x dB Bandwidth 15.141 MHz



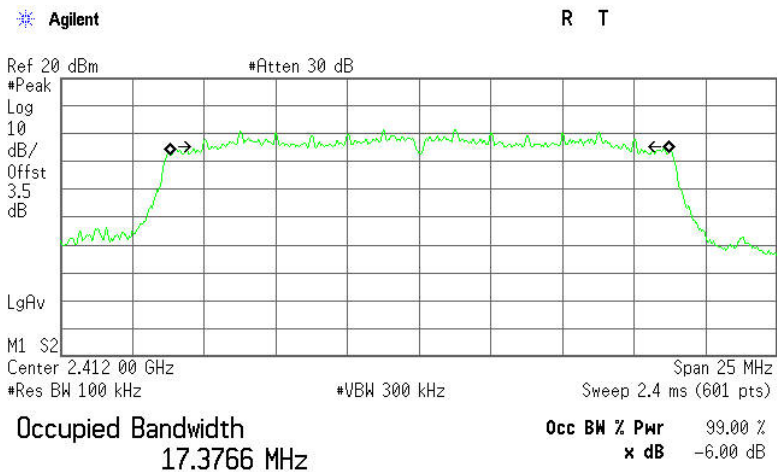
### 6dB Bandwidth (CH High)



Transmit Freq Error 21.761 kHz  
 x dB Bandwidth 15.145 MHz

### IEEE 802.11n HT20 MHz (Antenna 1)mode

#### 6dB Bandwidth (CH Low)



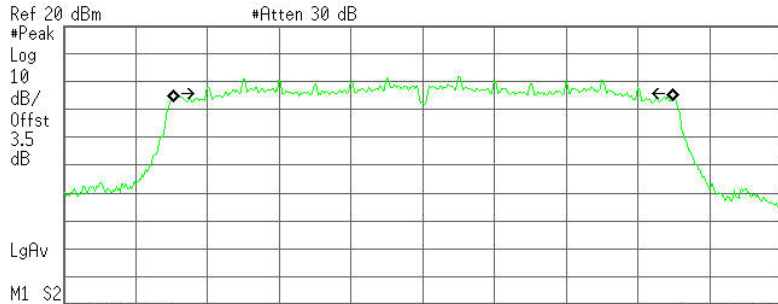
Transmit Freq Error 21.606 kHz  
 x dB Bandwidth 15.136 MHz



### 6dB Bandwidth (CH Mid)

Agilent

R T



M1 S2  
 Center 2.437 00 GHz Span 25 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.4 ms (601 pts)

Occupied Bandwidth  
 17.3970 MHz

Occ BW % Pwr 99.00 %  
 x dB -6.00 dB

Transmit Freq Error 19.959 kHz  
 x dB Bandwidth 15.136 MHz

### 6dB Bandwidth (CH High)

Agilent

R T



M1 S2  
 Center 2.462 00 GHz Span 25 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.4 ms (601 pts)

Occupied Bandwidth  
 17.3887 MHz

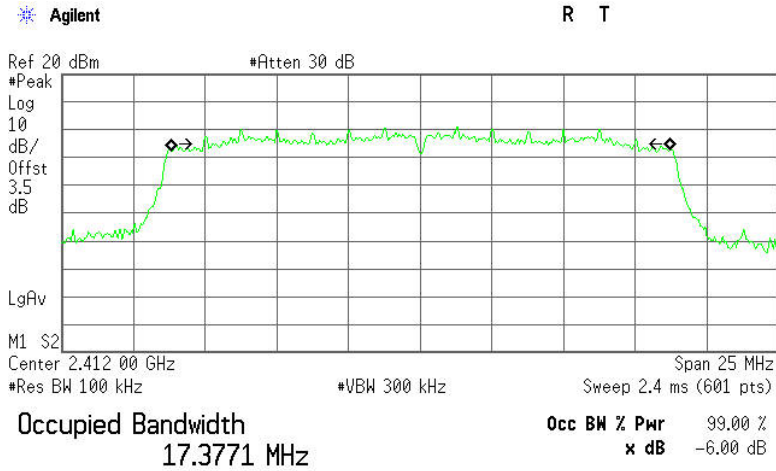
Occ BW % Pwr 99.00 %  
 x dB -6.00 dB

Transmit Freq Error 15.048 kHz  
 x dB Bandwidth 15.136 MHz



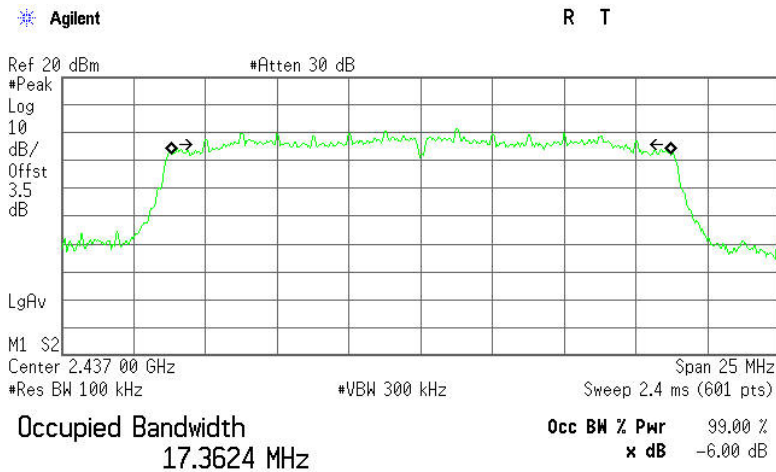
IEEE 802.11n HT20 MHz (Antenna 2)mode

6dB Bandwidth (CH Low)



Transmit Freq Error 12.164 kHz  
x dB Bandwidth 15.144 MHz

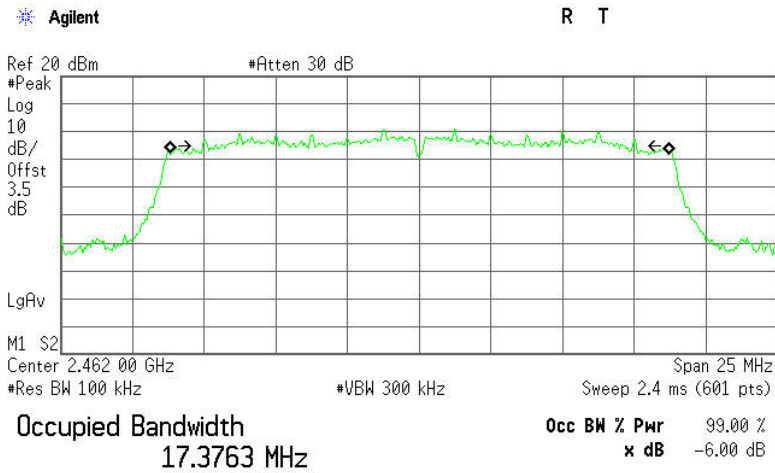
6dB Bandwidth (CH Mid)



Transmit Freq Error 10.307 kHz  
x dB Bandwidth 15.130 MHz



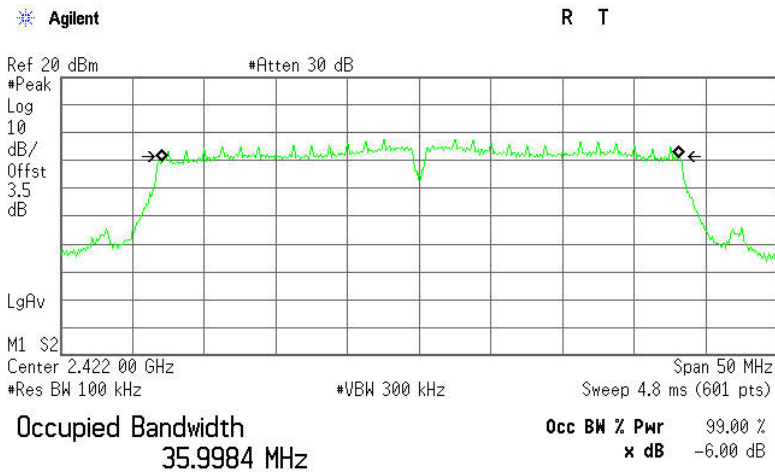
### 6dB Bandwidth (CH High)



Transmit Freq Error 18.822 kHz  
x dB Bandwidth 15.126 MHz

### IEEE 802.11n HT40 MHz (Antenna 1) mode

### 6dB Bandwidth (CH Low)



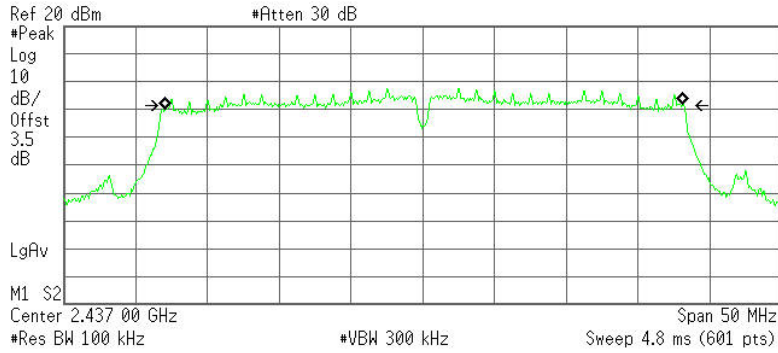
Transmit Freq Error 80.573 kHz  
x dB Bandwidth 35.478 MHz



### 6dB Bandwidth (CH Mid)

Agilent

R T



Occupied Bandwidth  
36.0230 MHz

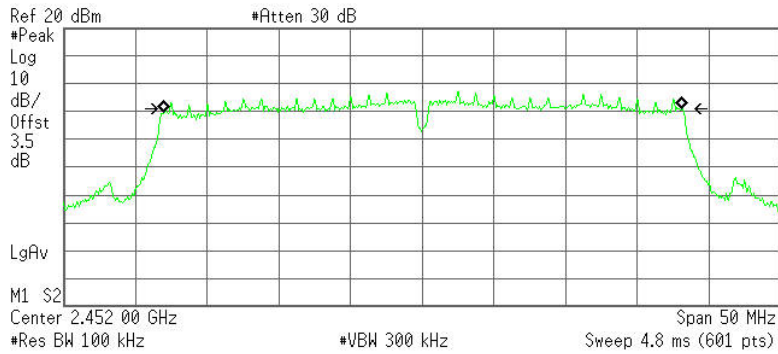
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error 79.208 kHz  
x dB Bandwidth 35.754 MHz

### 6dB Bandwidth (CH High)

Agilent

R T



Occupied Bandwidth  
36.0577 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

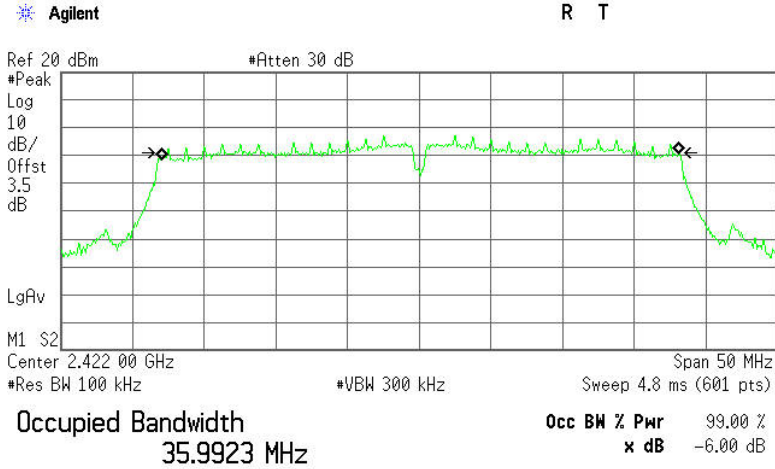
Transmit Freq Error 67.876 kHz  
x dB Bandwidth 35.734 MHz





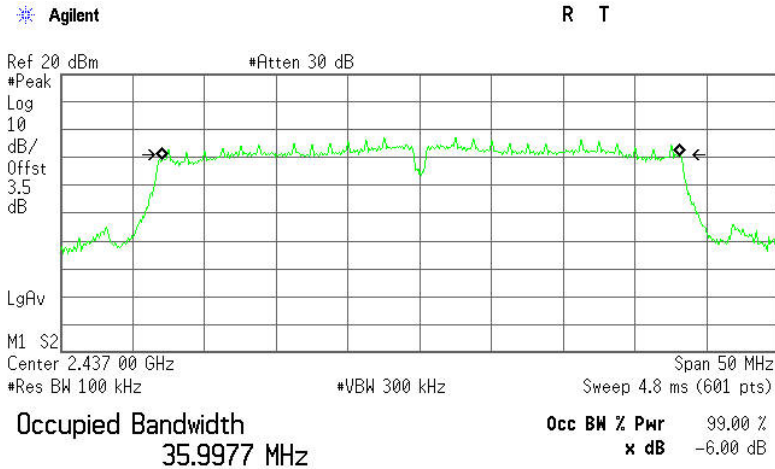
IEEE 802.11n HT40 MHz (Antenna 2) mode

6dB Bandwidth (CH Low)



Transmit Freq Error 85.945 kHz  
 x dB Bandwidth 35.189 MHz

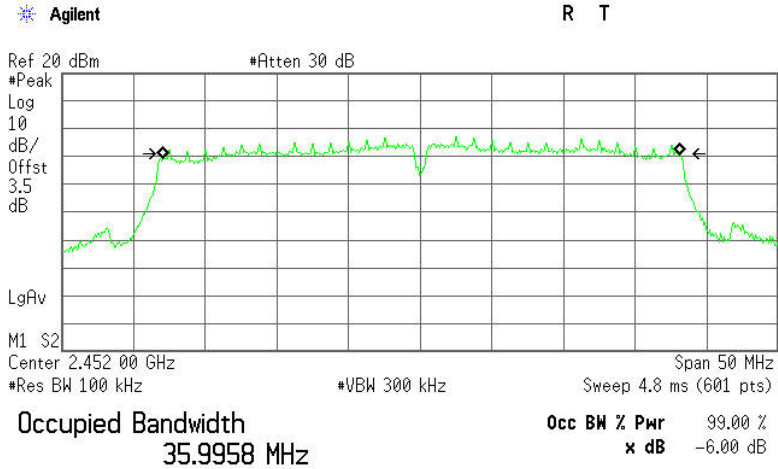
6dB Bandwidth (CH Mid)



Transmit Freq Error 84.595 kHz  
 x dB Bandwidth 35.718 MHz



### 6dB Bandwidth (CH High)



Transmit Freq Error 87.897 kHz  
x dB Bandwidth 35.712 MHz



## 7.4. PEAK OUTPUT POWER

### 7.4.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 7.4.2. TEST INSTRUMENTS

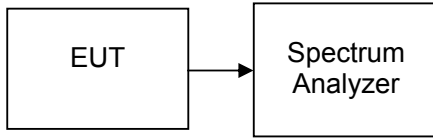
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	03/09/2013	03/08/2014

### 7.4.3. TEST PROCEDURES (please refer to measurement standard)

1. This procedure provides an integrated measurement alternative when the maximum available RBW < EBW.
2. Set the RBW = 1 MHz.
3. Set the VBW = 3 MHz.
4. Set the span to a value that is 5-30 % greater than the EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at 1 MHz intervals extending across the EBW of the spectrum.



7.4.4. TEST SETUP



7.4.5. TEST RESULTS

No non-compliance noted

**Test Data**

Test mode: IEEE 802.11b (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	16.62	0.04592	1	PASS
Mid	2437	16.61	0.04581		PASS
High	2462	16.80	0.04786		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.47	0.02223	1	PASS
Mid	2437	13.69	0.02339		PASS
High	2462	13.29	0.02133		PASS

Test mode: IEEE 802.11g (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.30	0.02138	1	PASS
Mid	2437	12.92	0.01959		PASS
High	2462	13.31	0.02143		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.47	0.02223	1	PASS
Mid	2437	13.56	0.02270		PASS
High	2462	13.30	0.02138		PASS



Test mode: IEEE 802.11n HT20 MHz (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.10	0.02042	1	PASS
Mid	2437	12.90	0.01950		PASS
High	2462	13.28	0.02128		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2422	12.08	0.01614	1	PASS
Mid	2437	12.24	0.01675		PASS
High	2452	12.36	0.01722		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 2)

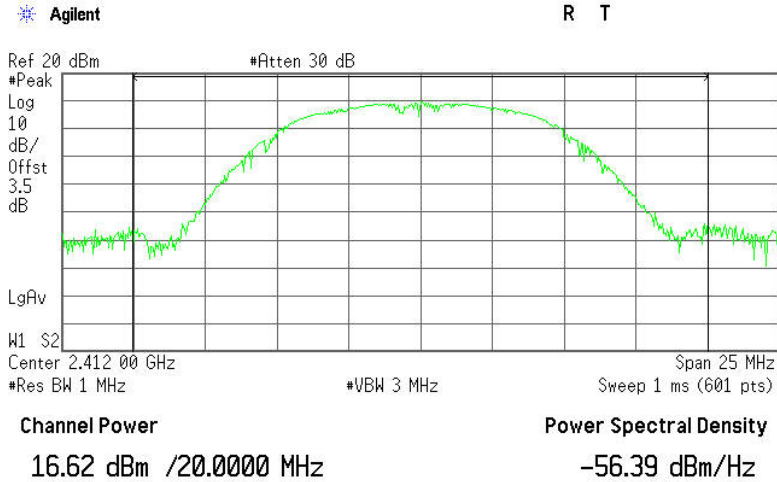
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2422	12.21	0.01663	1	PASS
Mid	2437	12.17	0.01648		PASS
High	2452	12.59	0.01816		PASS



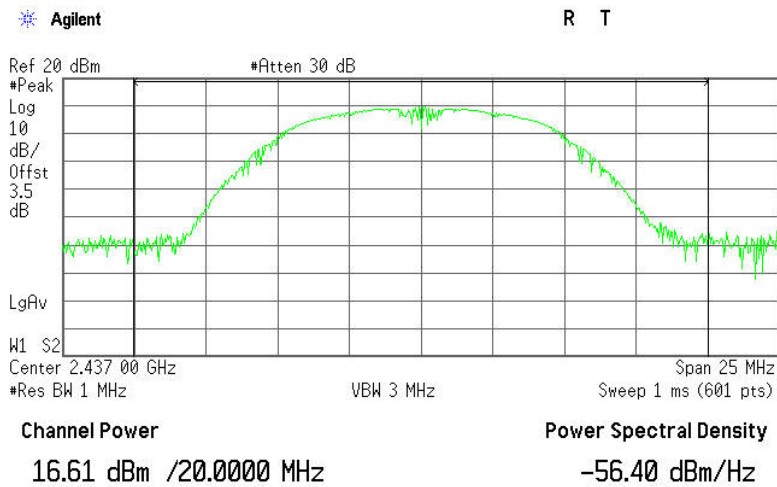
**Test Plot**

**IEEE 802.11b( Antenna 2) mode**

**Peak power (CH Low)**

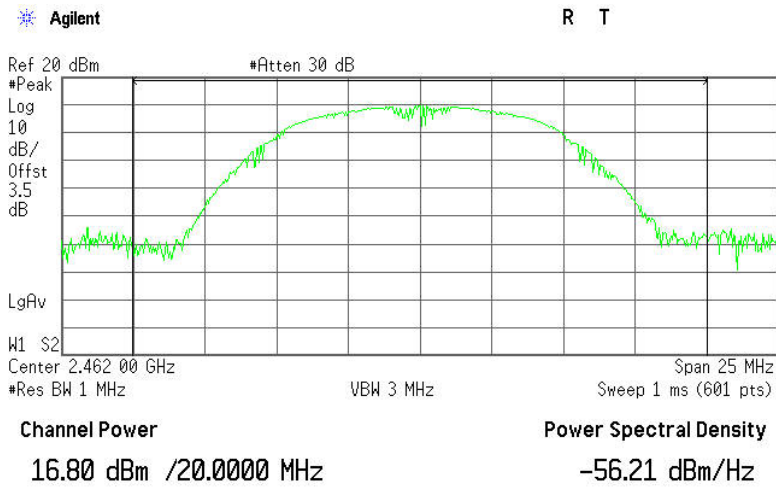


**Peak power (CH Mid)**



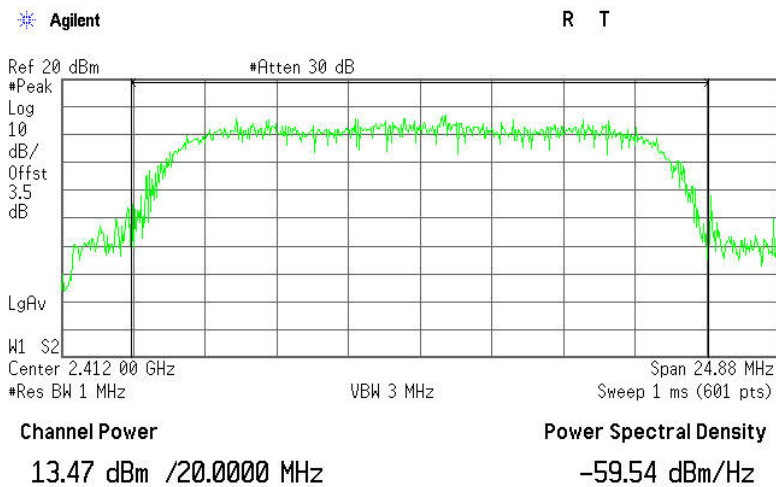


### Peak power (CH High)



### IEEE 802.11g (Antenna 1)mode

#### Peak power (CH Low)

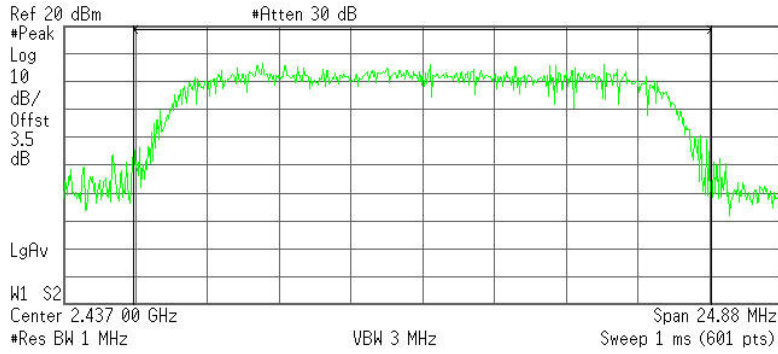




### Peak power (CH Mid)

Agilent

R T



Channel Power

13.69 dBm /20.0000 MHz

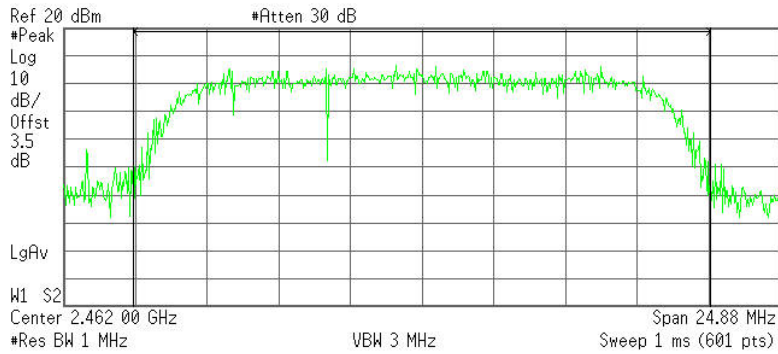
Power Spectral Density

-59.32 dBm/Hz

### Peak power (CH High)

Agilent

R T



Channel Power

13.29 dBm /20.0000 MHz

Power Spectral Density

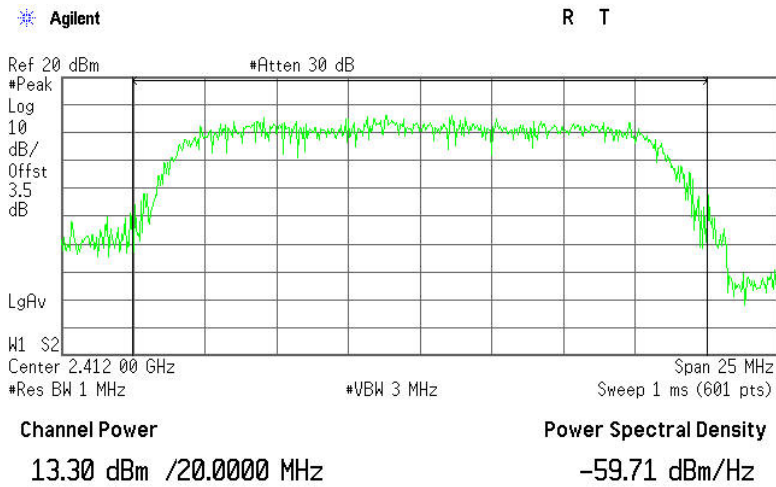
-59.72 dBm/Hz



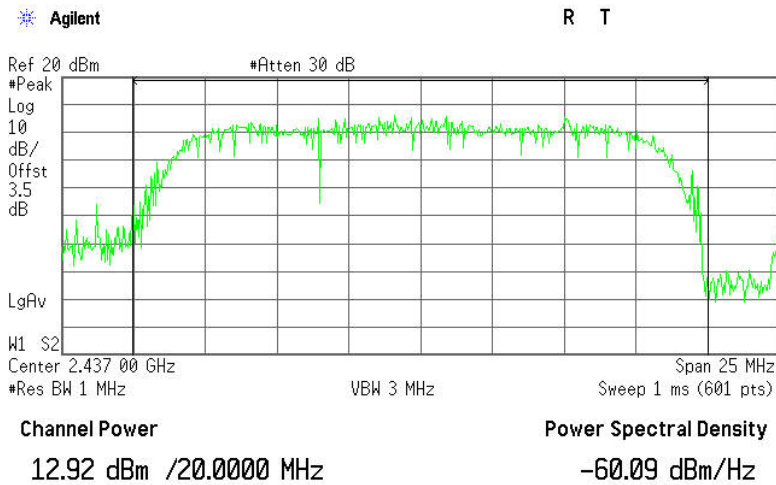


IEEE 802.11g (Antenna 2)mode

Peak power (CH Low)

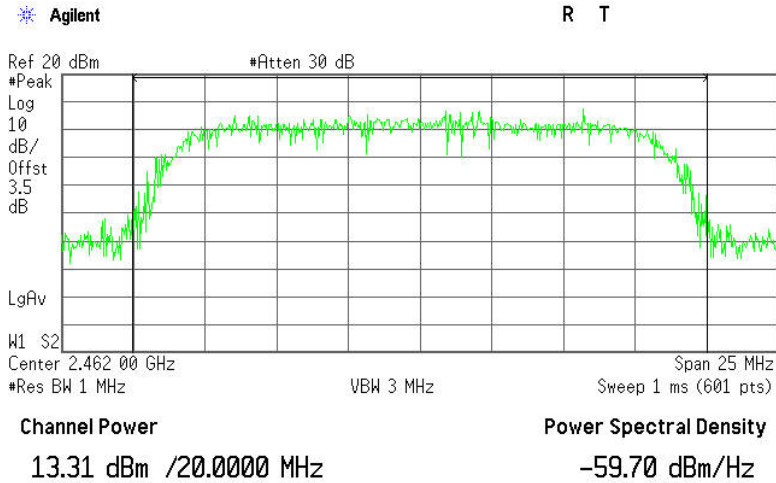


Peak power (CH Mid)



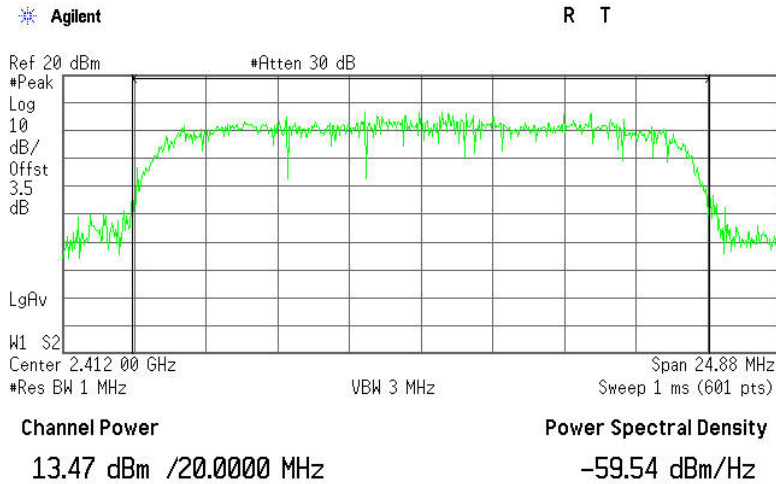


### Peak power (CH High)



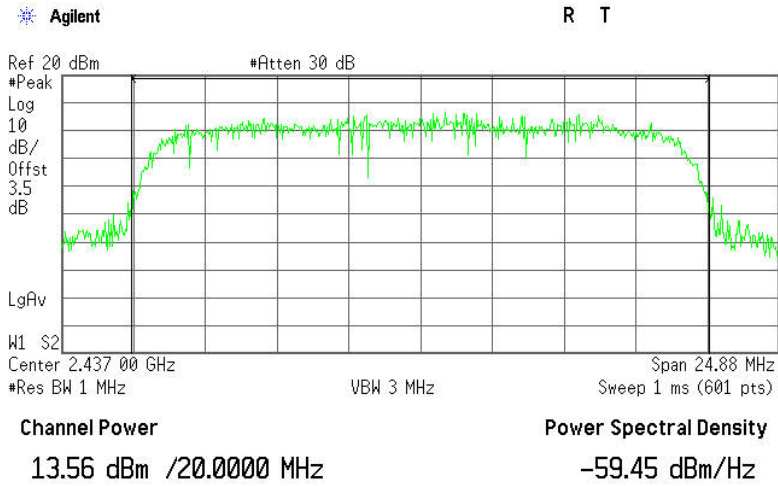
### IEEE 802.11n HT20 MHz (Antenna 1)mode

#### Peak power (CH Low)

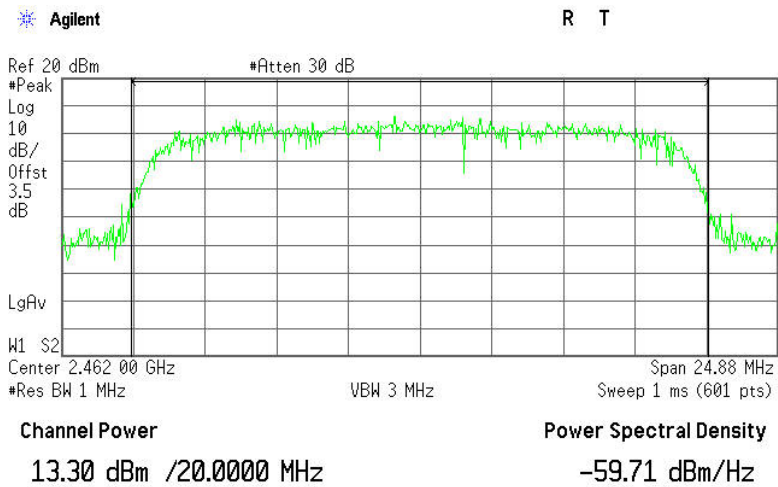




### Peak power (CH Mid)



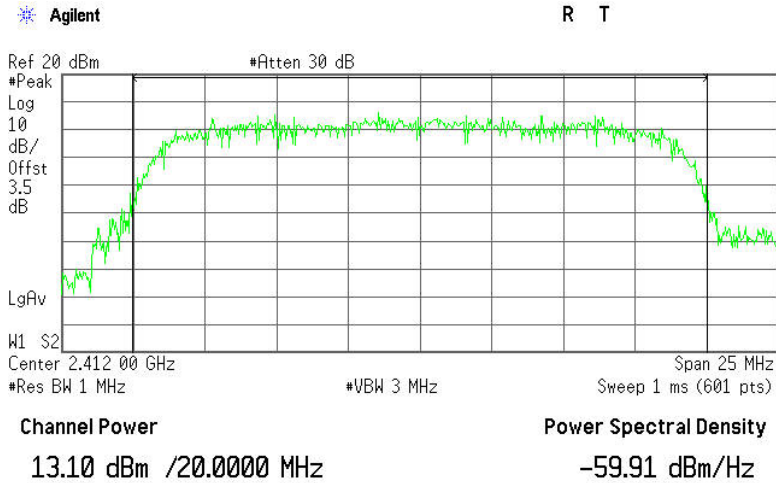
### Peak power (CH High)



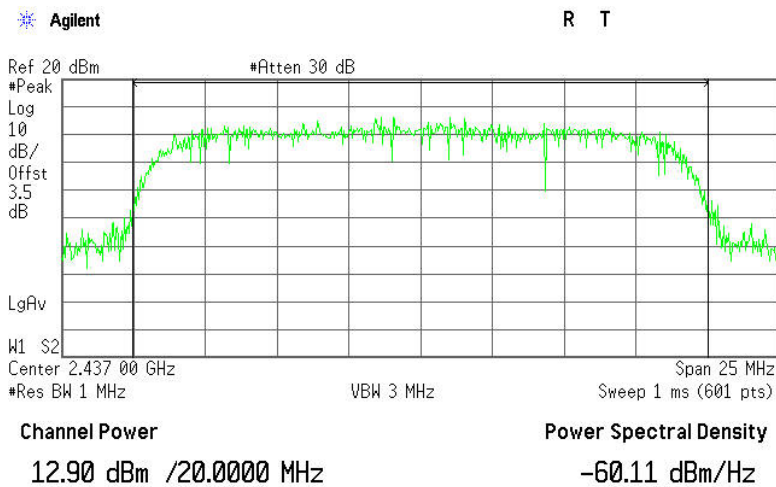


IEEE 802.11n HT20 MHz (Antenna 2)mode

Peak power (CH Low)

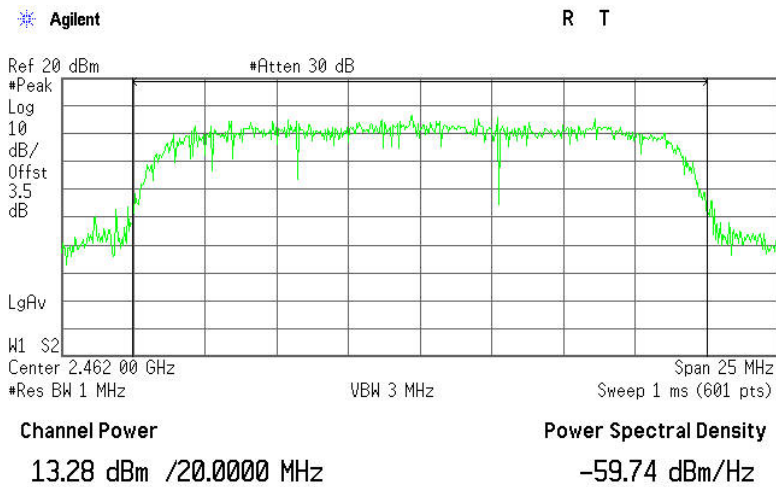


Peak power (CH Mid)





### Peak power (CH High)



### IEEE 802.11n HT40 MHz (Antenna 1 )mode

#### Peak power (CH Low)

